Virginia on the date below.

Attorney Docket No. 039153-0529 (G1234)

CERTIFICATE OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the United States Patent and Trademark Office, Alexandria,

Paul S. Hunter

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Ercan Adem

Title:

METHOD OF ULTRA-LOW ENERGY

ION IMPLANTATION TO FORM

ALLOY LAYERS IN COPPER

Appl. No.:

10/803,852

Filing Date:

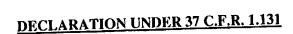
3/18/2004

Examiner:

Gurley, Lynne Ann

Art Unit:

2812



Commissioner for Patents and Trademarks Washington, D.C. 20231

Dear Examiner Gurley:

I, ERCAN ADEM state and declare that:

- I am the inventor of the invention recited in claims 1, 3, and 5-19 of the patent application identified above and am an employee of Advanced Micro Devices, Inc., the Assignee of the patent application.
- On or before August 21, 2001, I conceived in the United States the subject matter of Claims 1, 3, and 5-19 as evidenced by the attached Exhibit A.
- Exhibit A (5 pages), titled "AMD INVENTION DISCLOSURE," marked "G1234," is a copy of an invention disclosure document used in the routine business practice of Advanced Micro Devices, Inc. for disclosing inventive subject matter to corporate patent counsel.
- Exhibit A, received by AMD's Tech. Law Department on August 21, 2001, discloses the base subject matter of Claims 1, 3, and 5-19. Exhibit A was completed during a patent harvesting session dated August 21, 2001.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these 5. statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

-1-

Application No. 10/803,852

MADI_621215.1

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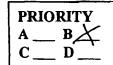
TUESDAY, AUGUST 21, 2001

COPPER ALLOY PATENT HARVESTING SESSION

GROUP 2: ROOM C-9 \$10

Technical Leader: Steve Avanzino

TOPIC: INTEGRATION



TLD ID# 61234 AMD INVENTION DISCLOSURE Sunnyvale x42110, return to MS68, Texas x55964 return to MS562 Project: , Product: , Process: , Technology , to which the invention applies (identify): List 2 to 5 key words useful to search by to find patents or art related to this invention: Working title of invention: USE UITA LOWALDN IMPLANTATION (ULEII) To Form Alloy Lavers in Copper. →INVENTOR/SESSION PARTICIPANT ADDRESS INFORMATION IS ON THE NEXT PAGE (1A) ← Inventor's signature : ______date : _____ Inventor's printed full name: _____ Citizenship: _____ Employee #: ____ Extension: ____ Mail stop: ____ Home telephone:()_____ Division: ____ Dept #: ___ Dept : ___ Manager: ____ Residence address: Post Office address: Co-Inventor's signature : ______ date : ______

Co-Inventor's printed full name: ______ Citizenship: _____

Employee #: _____ Extension: _____ Mail stop: ____ Home telephone:() _____ Division: ____ Directorate: ____ Dept #: ____ Dept : ____ Manager: ____ Residence address: Post Office address: Co-Inventor's signature: ______ date : ______

Co-Inventor's printed full name: ______ Citizenship: ______

Employee #: ____ Extension: ____ Mail stop: ____ Home telephone:() _____ Division: ____ Directorate: ___ Dept #: ___ Dept : ___ Manager: ___ Residence address: ____ Post Office address: Co-Inventor's signature : ______ date : ______ Co-Inventor's printed full name: ______ Citizenship: ______ Co-Inventor's printed full name: _____ Citizenship: ____ Employee #: ____ Extension: ____ Mail stop: ___ Home telephone:() ____ Division: ____ Directorate: ____ Dept #: ____ Dept : ____ Manager: ____ Residence address: Post Office address: List on additional sheet if there are more co-inventors and list total number of inventors here:_____ Name(s) of attorney(s) preferred by inventor(s) to prepare patent application, if known: LAW FIRM: FOLEY & LARDNER ATTORNEYS: Ron Coslick and Rick Malone DAVID BLUMENTHAL Witness 1 initial: _____ Witness 2 initial: _____ AMD CONFIDENTIAL Page 1 IDF CVR SHEET-grp II DB 7/31/1995 printed Monday, August 20, 2001 3:53 PM. page rev 11/25/1996

TDG-Copper Alloy Patent Harvesting Session Group 2 Topic: Integration Issues

Technical Leader: Steven C. Avanzino Law Firm: Foley & Lardner (David Blumenthal, Ron Coslick & Rick Malone)

PARTICIPANT ADDRESSES Tuesday, August 21, 2001—ROOMS C-9&10

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Code	94087	95014	94061	94024	94115	95035	94306	95129
State	Š	ర	Š	Š	Q V	CA	CA	CA
City	Sunnyvale	Cupertino	Redwood City	Los Altos	San Francisco	Milpitas	Palo Alto	San Jose
Address	729 Liverpool Way	7504 Barnhart Place	2666 Hampton Avenue	1100 Runnymead Drive	2106 B Scott Street	1307 Edsel Drive	857 San Jude Avenue	6005 Wellfleet Way
Fax#	408/774- 8812	408/749- 3851	408/774- 8812	408/749- 3851	408/774- 8812	408/749- 5585	408/749- 3851	408/749- 3851
Work #	408/749- 4820	408/749- 2143	408/749- 5887	408/749- 4312	408/749- 4091	408/749- 4574	408/749- 2253	408/749- 2437
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Dept. #	07370	07881	07370	07881	07370	07541	07881	07881
Employe e #	022538 07	019717 07	022258 07	007140 07	022733 07	024853	022732	063099
Citizenship Employe	UNITED	USA	USA	USA	USA	NDIA	USA	USA
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IDF PAGE 1A

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AMD INVENTION DISCLOSURE TLD ID# Rec'd date California x42110, return to MS68, Texas x55964 return to MS562, Dresden x83401 Silke Kretzschmar at MS E21-PP.
California x42110, return to MS68, Texas x55964 return to MS562, Dresden x83401 Silke Kretzschmar at MS E21-PP. Identify known relevant, art (patents, publications, products): White the products of the pr
State the problem solved by this invention: ULFTT PMARIS IMPLANTATION OF MULTIPLE IN PERD IN LAYER, MITHIELD IN PURPLE IN PURPLE. Brief description and/or sketch of invention (please attach copies of AMD patent notebook pages, reports or
drawings): VLE for In planted & Danti C. Seed.
- VEZ William Copung
Ramer (CVDTN)
- Many ellments can be implanted without manufacture of solid in-Alloy togets.
- Play dopant Con until can be sonther
- Mon supert element range placed @ a find shifting distribution that implicating the bulk shift his lines conthitude by the me plant whom energy
The slaunent of the alloy element dopant on to
Patent notebook # Page numbers Number of drawings
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Witness 1 initial: Witness 2 initial:
IDFPAPER011 DB 7/31/95 printed Monday, August 20, 2001 4:09 PM page rev 6/20/00 AMDA CONFIDENTIAL

AMD INVENTION DISCL	LOS	SURE T	LD ID#		Rec'd date		
	xas x	55964 return to MS56	2, Dresden x83401 S	ilke l	Kretzschmar at MS E21-PP.		
Advantages (check all that apply):	-		 	_			
avoids existing patent(s)		improves preci		┶	simplifies manufacturing		
new function		improves accuracy			improves wear characteristic		
improves density	ᆜ	improves efficiency			improves signal to noise ratio		
increases operating speed		fewer component parts					
improves reliability	Ш	reduces cost of	of manufacturing				
Discussion of advantage of the inven (emphasize technical advance in the							
Time misses described to the Colonial	. •		T71	1			
First written description* of invention	n, da		First external disclosure to (name):				
Date of first drawing*: Date invention first reduced to practi		1	Date of first external disclosure, none				
	Ce.		External disclosure under NDA* No Yes				
Made by (name): Tested by (name):			First external disclosure or use by: presentation,				
· · · · · · · · · · · · · · · · · · ·			announcement , sample , sale , other				
Date of first computer simulation: Date of first successful test:			Date of Non-Disclosure Agreement*, if any:				
			Date of first publication*: Publication name:				
any of above occurred outside of US.	A		Date of first commercial use:				
* attach copy if possible Does plan exist to publish, disclose of				ner	ciai use:		
Was invention conceived, constructe another company: No, Yes If yes, name of AMD business contact Was invention jointly developed with If yes, Company name	d or]. ct an	tested pursuant If yes, compan d contract no	to the performand y name				
I have read and understood this di	sclos	sure and read	and signed each	pag	e of the attachments:		
Witness 1 signature:			Date:				
Printed name:			Employee #:				
Witness 2 signature:			Date:				
Printed name:					_ Employee #:		
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AMD INVENTION DISCLOSURE TLD ID# Rec'd date California x42110, return to MS68, Texas x55964 return to MS562, Dresden x83401 Silke Kretzschmar at MS E21-PP.
DISCLOSURE EVALUATION (Entries from this point on are by the Reviewer)
Does this invention add value to the AMD intellectual property portfolio? Yes [], No [], Explain:
Do you know of any relevant art? Yes [], No [], If yes, attach a copy and explain:
What application(s) do you foresee for this invention?
I estimate the Value* of this invention disclosure is A , B , C , D , *use worksheet "Valuing Invention Disclosures and Patents". it is , is not recommended to AMD for U.S. patent application filing, it is , is not recommended to AMD for foreign patent application filing, it is , is not recommended to be held as an AMD trade secret, Give this high priority , normal , low priority , in patent application writing. GUIDELINES AND CONSIDERATIONS FOR FOREIGN FILING DECISION Filing foreign patent applications is costly. We should choose to do it only when conditions warrant. ALL CONDITIONS BELOW MUST APPLY IN ORDER TO INITIATE A FOREIGN FILING: Invention is High-Valued (A, B)*, and Invention usage is detectable by inspection of product, and Invention is relatively hard to design around, and
Competitor is operating in the country of interest. (see ca0000000.xls tabulation of "Factory Sites outside the USA.) I recommend filing patent applications in foreign countries checked below:
Japan S.Korea Taiwan U.K. France Germany
Reviewer's signature: Employee #: Date:
Reviewer's printed name: If foreign filing is checked, route to Div. VP for signature.
VP or Designate approves foreign filing (signature)
Reviewer: Complete this page and send disclosures to TLD for patent application filing.
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